



Submit this form for form 1449 A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
<i>ayel</i>		US-4,622,013	11/11/1986	Cherchio	
<i>ayel</i>		US- 4,874,784	10/17/1989	Clancey	
<i>ayel</i>		US- 4,981,766	01/02/1990	Derr, et al.	
<i>ayel</i>		US- 4,931,950	06/05/1990	Isle, et al.	
<i>ayel</i>		US- 4,964,077	10/16/1990	Eisen, et al.	
<i>ayel</i>		US- 4,977,529	12/11/1990	Gregg, et al.	
<i>ayel</i>		US- 5,002,491	03/26/1991	Abrahamson, et al.	
<i>ayel</i>		US- 5,170,464	12/08/1992	Hayes, et al.	
<i>ayel</i>		US- 5,189,402	02/23/1993	Naimark, et al.	
<i>ayel</i>		US- 5,208,745	05/04/1993	Quentin, et al.	
<i>ayel</i>		US- 5,208,898	05/04/1993	Funabashi, et a	
<i>ayel</i>		US- 5,239,817	08/24/1993	Gardner, et al.	
<i>ayel</i>		US- 5,259,766	11/09/1993	Sack et al.	
<i>ayel</i>		US- 5,267,865	12/07/1993	Lee, et al.	
<i>ayel</i>		US- 5,310,349	05/10/1994	Daniels, et al.	
<i>ayel</i>		US- 5,311,422	05/10/1994	Loftin, et al.	
<i>ayel</i>		US- 5,317,888	05/31/1994	Watson, et al.	
<i>ayel</i>		US- 5,326,270	07/05/1994	Ostby, et al.	
<i>ayel</i>		US- 5,359,701	10/25/1994	Chiang, et al.	
<i>ayel</i>		US- 5,372,507	12/13/1994	Goleh	

RECEIVED

FEB 15 2002

Technology Center 2100

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> - Number <sup>5</sup> - Kind Code <sup>6</sup> (if known)				
<i>ayel</i>		EP 0 689 132 A2	12/27/95	Laffra		
<i>ayel</i>		EP 0 710 942 A2	05/08/96	Siefert		
<i>ayel</i>		EP 0 710 942 A2	05/08/96	Siefert		
<i>ayel</i>		EP 0 798 655 A2	10/01/97	Jervis, et al.		
<i>ayel</i>		WO 00/04478	01/27/00	Jonsson		
<i>ayel</i>		WO 97/44766	11/27/97	Cook		
<i>ayel</i>		WO 98/03953	01/29/98	Simmons		
<i>ayel</i>		WO 98/25251	06/11/98	Ho		
<i>ayel</i>		WO 98/32109	07/23/98	De Lange		

Examiner  
Signature*ayel Sharov*Date  
Considered

5/13/05

<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>3</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>7</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.  
Substitute for form 1449 APTO**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

**RECEIVED****FEB 15 2002**

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>ayyl</i>		"Evaluating the effectiveness of feedback in SQL-tutor", IEEE, proc. Int. workshop IWALT, pp 143-144	
<i>ayyl</i>		"Automated Exercise Progression in Simulation-Based Training," IEEE Trans. On Systems, Man, and Cybernetics, Vol. 24(6), pp. 863-74, June 1994	
<i>ayyl</i>		"ACM Transactions on Information Systems," 1988 at <a href="http://www.acm.org/pubs/toc/Abstracts/tois/59298.html">www.acm.org/pubs/toc/Abstracts/tois/59298.html</a>	
<i>ayyl</i>		The Virtual Classroom: Great Expectations. Delivering Graduate Education by Computer: A Success Story, 1996.	
<i>ayyl</i>		"A Special Section – Goal Based Scenarios: A New Approach to Professional Education: Reengineering Education at Andersen Consulting," Educational Technology, Nov.-Dec. 1994	
<i>ayyl</i>		"Goal-Based Scenarios and the Problem of Situated Learning: A Commentary on Andersen Consulting's Design of Goal-Based Scenarios," Educational Technology, Nov.-Dec. 1994	
<i>ayyl</i>		"DDD—A Free Graphical Front-End for UNIX Debuggers," Jan. 1996, ACM Sigplan Notices, Vol. 31, No. 1, pp. 22-27	
<i>ayyl</i>		"Automated Training of Legal Reasoning" at <a href="http://www.bileta.ac.uk/94papers/muntjew.html">http://www.bileta.ac.uk/94papers/muntjew.html</a>	
<i>ayyl</i>		"The Virtual Learning Environment System," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 2, Nov. 4-7, 1998	
<i>ayyl</i>		"Developing a Design System into an Intelligent Tutoring System," Int'l J. Engr. Eud., Vol. 13(5), pp-341-48, Dec. 1997	
<i>ayyl</i>		"CAPTOR a model for delivering web based intelligent tutoring system technology", IEEE Proc. DASC vol. 2, pp 5.C.4.1-5	

Technology Center 2100

Examiner Signature	<i>ayyl Sharoon</i>	Date Considered	5/13/05
--------------------	---------------------	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute form 1449 A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Application Number : 09/868,678**

**Filing Date: 02/08/1999**

First Named Inventor: O'Connor

**Group Art Unit:** n/a

**Examiner Name:** n/a

Attorney Docket Number: 05222.00155

*(Use as many sheets as necessary)*

Sheet \_\_\_\_\_ of \_\_\_\_\_

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
and		US-5,395,243	03/07/1995	Lutbin, et al.	
and		US- 5,441,415	08/15/1995	Lee, et al.	
and		US- 5,491,743	02/13/1996	Shilo, et al.	
and		US- 5,533,903	07/09/1996	Kennedy	
and		US- 5,535,422	07/09/1996	Chang, et al.	
and		US- 5,537,141	07/16/1996	Harper, et al.	
and		US- 5,539,869	07/23/1996	Spoto, et al.	
and		US- 5,566,291	10/15/1996	Boulton, et al.	
and		US- 5,578,844	11/19/1996	Anderson, et al.	
and		US- 5,577,186	11/19/1996	Mann II, et al.	
and		US- 5,597,312	01/28/1997	Bloom, et al.	
and		US- 5,616,033	04/01/1997	Kenwin	
and		US- 5,644,686	07/01/1997	Hekmatpour	
and		US- 5,644,727	07/01/1997	Atkins	
and		US- 5,673,369	09/30/1997	Kim	
and		US- 5,690,496	11/25/1997	Kennedy	
and		US- 5,696,885	12/09/1997	Hekmatpour	
and		US- 5,701,400	12/23/1997	Amado	
and		US- 5,720,007	02/17/1998	Hekmatpour	
and		US- 5,727,161	03/10/1998	Purcell, Jr.	

RECEIVED

FEB 15 2002

Technology Center 2100

[illegible]

Examiner Signature	<i>Aysel Shavron</i>	Date Considered	5/13/05
-----------------------	----------------------	--------------------	---------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

PTO/SB/08A (10-01)



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449 A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>ayl</i>		"Bridging the Virtual and the Physical: The InterSim as a Collaborative Support Interface," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 556-58, Dec. 1997	
<i>ayl</i>		"Task-Oriented Learning on the Web"; Innovations in Education and Training International, Vol. 36, No. 1, Feb. 1999	
<i>ayl</i>		"Applications of BrainMaker Neural Network to stocks, business, medical, manufacturing" at <a href="http://www.calsci.com/Applications.html">www.calsci.com/Applications.html</a>	
<i>ayl</i>		"KBLPS Overview" at <a href="http://www.cgi.com/CGIWEB/KBLPS/overindex4.html">www.cgi.com/CGIWEB/KBLPS/overindex4.html</a>	
<i>ayl</i>		"Smartlaw: adapting classic expert system techniques for the legal research domain", ACM pp 138-141	
<i>ayl</i>		"Interactive Multimedia Instructs the Individual," Oct. 1994, Occupational Health & Safety Vol. 63, No. 10, pp. 144-145	
<i>ayl</i>		"Practical methods for automatically generating typed links", ACM Hypertext, pp 31-41	
<i>ayl</i>		"Popular Theory Supporting the Use of Computer Simulation for Experiential Learning," <a href="http://www.centurionsys.com/tcl57.html">http://www.centurionsys.com/tcl57.html</a> , Aug. 1997	
<i>ayl</i>		"Technical Report: Computer Aided Education and Training Initiative" at <a href="http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html">http://advlearn.lrdc.pitt.edu/advlearn/papers/FINALREP.html</a>	
<i>ayl</i>		"FRA: Teaching Financial Accounting with a Goal-Based Scenario," Intelligent Systems in Accounting, Finance and Management, Vol. 4, 1995	
<i>ayl</i>		"Teaching Real-World Analysis Skills for Goal-Based Scenario," pp. 69-74	

RECEIVED

FEB 15 2002

Technology Center 2100

Examiner  
Signature*ayl Sharon*Date  
Considered

5/13/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

## Attorney Docket Number: 05222.00155

Sheet of

Technology Center 2100

7

**Examiner  
Signature**

Amul Shroon

Date Considered

5/13/05

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

+



Substitute for form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ayyl		"Artificial Intelligence and Mathematics Education" at <a href="http://www.rand.org/hol/mcarthur/Papers/aied.html">http://www.rand.org/hol/mcarthur/Papers/aied.html</a>	
ayyl		"The Roles of Artificial Intelligence in Education: Current Progress and Future Prospects" at <a href="http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html">http://www.nib.unicamp.br/recursos...education/intelligent-tutoring.html</a>	
ayyl		"WITS: A Reusable Architecture for a VR-Based ITS" at <a href="http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html">http://advlearn.lrdc.pitt.edu/its-arch/papers/tam.html</a>	
ayyl		"Brainmaker" at <a href="http://www.nplec.on.ca/~echoscan/28-04.htm">www.nplec.on.ca/~echoscan/28-04.htm</a>	
ayyl		"News for ESAP" at <a href="http://www.hops.wharton.upenn.edu/~esap/news.html">www.hops.wharton.upenn.edu/~esap/news.html</a>	
ayyl		"Learning with Computers," May 1994, Accountancy Vol. 113, No. 1209, pp. 60-64	
ayyl		"User-Sensitive Multimedia Presentation System," March 1, 1996, Vol. 39, No. 3, pp. 93-94	
<del>ayyl</del>			
ayyl		"Microworlds and Simuworlods: Practice Fields for the Learning Organization," Spring 1996, Organizational Dynamics Vol. 24, No. 4, pp. 36-49	
ayyl		"What are Intelligent Coaching Systems and Why are they (in)evitable?" IEEE Colloquium on Artificial Intelligence in Educational Software, pp. 2/1-2/5, June 1998	
ayyl		"Development of an Integrated Simulator and Real Time Plant Information System," Advances in Operational Safety of Nuclear Power Plants, Proceedings of an International Symposium 1996.	

RECEIVED

FEB 15 2002

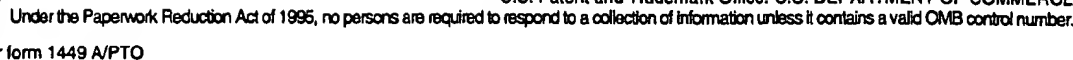
Technology Center 2100

Examiner Signature	ayyl sharon	Date Considered	5/13/05
-----------------------	-------------	--------------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Attorney Docket Number: 05222.00155

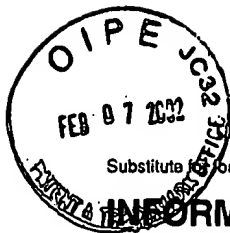
Sheet \_\_\_\_\_ of \_\_\_\_\_

Technology Center 2100

Examiner Signature	<i>Angel Sharon</i>	Date Considered	5/13/05
-----------------------	---------------------	--------------------	---------

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

+



Substitute for Form 1449 A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

RECEIVED

FEB 15 2002

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ayel		"A Goal-Centered Architecture for Intelligent Tutoring Systems," Proc. Of 7th World Conf. On Artificial Intelligence In Education, pp. 307-314, Aug. 1995	
ayel		"Smart Avatars in JackMOO," Proceedings of the 1999 IEEE Conference on Virtual Reality, pp. 156-63	
ayel		"Embedding an Intelligent Tutoring System in a Business Gaming-Simulation Environment," Proc. Of the 1994 Winter Simulation Conference, pp. 1399-1406, Dec. 1994	
ayel		"Evaluating Intelligent Tutoring with Gaming Simulations," Proc. Of the 1995 Winter Simulation Conf., pp. 1376-83, Dec. 1995	
ayel		"Persistent Issues in the Application of Virtual Environment Systems to Training," August 1996, Proceedings. Third Annual Symposium on Human Interaction with Complex Systems, IEEE, pp. 124-32.	
ayel		"The Lisp Tutor," Byte, pp. 159-75, Apr. 1985	
ayel		"Pedagogical, natural language and knowledge engineering techniques in SOPHIE I, II, and III," in Intelligent Tutoring Systems, D. Sleeman & J.S. Brown eds., pp. 227-82, Dec. 1982	
ayel		Interactive Multimedia Distance Learning (IMDL): The Prototype of the Virtual Classroom, 1994.	
<del>ayel</del>			
ayel		"Understanding Organizational Dynamics of IT-Enabled Change: A Multipedia Simulation Approach," Winter 1997/1998, Journal of Mangement Information Systems: JMIS, Vol. 14, No. 3, pp. 109-140.	
ayel		"Intelligent Computer-Aided Instruction: A Survey Organized Around System Components," Jan. 1989, IEEE Inc., New York, Vol. 49, No. 1, pp. 40-57.	

Examiner Signature	ayel Sharon	Date Considered	5/13/05
--------------------	-------------	-----------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.





PTO/SB/08A (10-01)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
to respond to a collection of information unless it contains a valid OMB control number.

**Application Number : 09/868,678**

Filing Date: 02/08/1999

First Named Inventor: O'Connor

**Group Art Unit: n/a**

**Examiner Name:** n/a

Attorney Docket Number: 05222.00155

*(Use as many sheets as necessary)*

Sheet of

RECEIVED  
FEB 15 2002  
Technology Center 210

[illegible]

Examiner Signature	<i>Aysel Shwara</i>	Date Considered	5/13/05
-----------------------	---------------------	--------------------	---------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark

+



Substitute for form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

RECEIVED  
FEB 15 2002

Technology Center 2100

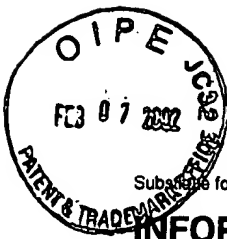
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ayel		"Conducting and Supporting a Goal-Based Scenario Learning Environment," Educational Technology, Nov.-Dec. 1994	
ayel		"Interface design issue for advising giving expert systems", Comm. Of the ACM, vol 30, no. 1, pp14-31	
thyl		"An Object-Oriented Architecture for Evolutional Development of Interactive Learning Environment with Coached Problem-Solving," Proc. Of 1997 World Conf. On Artificial Intelligence In Education, pp. 592-94, Dec. 1997	
ayel		"Architecture of an Intelligent Tutoring System on the WWW," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 39-46 Dec. 1997	
ayel		"Socialized Collaborative Learning in Multimedia Virtual Worlds" URL: <a href="http://www.iscs.nus.edu.sg/labs/learning/tels/VRML.html">http://www.iscs.nus.edu.sg/labs/learning/tels/VRML.html</a> ; viewed Feb. 18, 1999	
ayel		Flexible Learning, Feb. 1998, Credit Union Management Vol. 21, No. 2, pp. 32-33+	
ayel		"Teaching Through Case-Based Reasoning: An ITS Engine Applied to Business Communication," Proc. Of 1997 World Conf. On Artificial Intelligence In Education, pp. 111-18 Dec. 1997	
ayel		"Train with Less Pain," Oct. 13, 1997, Informationweek No. 652, pp. 150-154	
ayel		"Virtual Learning: A Revolutionary Approach to Building a Highly Skilled Workforce," Autumn 1998, Personnel Psychology Vol. 51, No. 3, pp. 767-71	
ayel		"Intelligent Tutoring Systems: An Overview" at <a href="http://www.intellectbooks.com/authors/lawler/its.htm">http://www.intellectbooks.com/authors/lawler/its.htm</a>	

Examiner Signature	ayel Sharon	Date Considered	5/13/05
--------------------	-------------	-----------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

RECEIVED

FEB 15 2002

Technology Center 2100

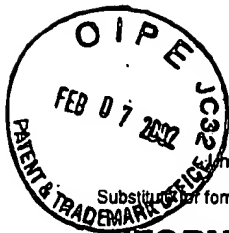
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ayel		"No More Boring CPE," July 1997, Accounting Technology, pp. 27-35	
Ayel		Computer Dictionary, 1997, pp. 264, 276, 383, 446, 462, 507.	
Ayel		"Rule-Based Programming with OPS5" at <a href="http://www.mkp.com/books_catalog/O-934613-51-8.asp">www.mkp.com/books_catalog/O-934613-51-8.asp</a>	
Ayel		"From Computer-Assisted Instruction to Intelligent Tutoring Systems," J. Artificial Intelligence in Education, V. 2(3), pp. 39-50, Dec. 1997	
Ayel		"MUSE U.S. Patents" at <a href="http://www.muser.com/html/patents.html">www.muser.com/html/patents.html</a>	
Ayel		"Distributed Intelligent Tutoring on the Web," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 482-89, Dec. 1997	
Ayel		"RadTutor: The Theoretical and Empirical Basis for the Design of a Mammography Interpretation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 388-393 Dec. 1997	
Ayel		"Using the Wizard of Oz Technique to Prototype a Scenario-Based Simulation Tutor," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 458-65, Dec. 1997	
Ayel		"Using Planning Techniques to Provide Feedback in Interactive Learning Environments," Proc. Sixth Int'l Conf. On Tools with Artificial Intelligence," pp. 700-03, Nov. 1994	
Ayel		"An Electronic Infrastructure for a Virtual University," Communications of the ACM, Vol. 40, No. 9, Sep. 1997.	
Ayel		"Simulation Technology and Parallelism in Learning Environments" at <a href="http://www.to.utwente.nl/prj/min/Book/chapter1.htm">http://www.to.utwente.nl/prj/min/Book/chapter1.htm</a>	

Examiner Signature	<i>Ayel Sharon</i>	Date Considered	5/13/05
-----------------------	--------------------	--------------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

RECEIVED

FEB 15 2002

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

Technology Center 2100

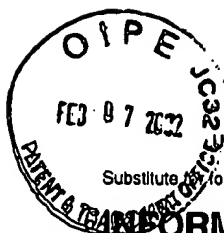
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ayul		"Engines for Education" URL: <a href="http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html">http://www.ils.nwu.edu/~e_for_e/nodes/I-M-INTRO-ZOOMER-pg.html</a> ; viewed Feb. 15, 1999.	
Ayul		"FinPlan System" at <a href="http://www.rriai.org.ru/FinPlan/">www.rriai.org.ru/FinPlan/</a>	
Ayul		"Enhancing Simulation Education with Intelligent Tutoring Systems," Proc. Of the 1996 Winter Simulation Conf., pp. 675-80, Dec. 1996	
Ayul		"Computer Aided Instruction for Statistics: A Knowledge-Based Systems Approach," Int'l J. of Computers in Adult Education and Training, Vol. 5(1), pp. 3-14.	
Ayul		"Teaching with the Internet" 1998, JAI Press Inc., USA. Vol no. 3, pp 217-222	
Ayul		"Development of a Simulation-Based Intelligent Tutoring System for Assisting PID Control Learning," Jan. 1994, IEICE Transactions on Information and Systems, E77-D, No. 1, Tokyo Japan, pp. 108-17.	
Ayul		"Authoring Intelligent Tutoring Systems: An Analysis of the State of the Art" at <a href="http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html">http://www.cs.umass.edu/~tmurray/papers/ATSummary/AuthTools.html</a>	
Ayul		Multimedia Training "Get Lemonade, Not a Lemon!" June 1997, Journal for Quality and Participation vol. 20, No. 3, pp. 22-26	
Ayul		"SMART Evaluation: Cognitive Diagnosis, Mastery Learning & Remediation," Proc. Of 7th World Conf. On Artificial Intelligence in Education, pp. 123-30, Aug. 1995	
Ayul		"Decision Pro3.0" at <a href="http://www.vanguardsw.com/">www.vanguardsw.com/</a>	

Examiner Signature	Ayul Sharov	Date Considered	5/13/05
--------------------	-------------	-----------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Substitute for Form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date: 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

RECEIVED

FEB 15 2002

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Ayyl		"A Fuzzy Logic-Based Intelligent Tutoring System," Information Processing 92, Vol. II, pp. 66-72, Dec. 1992.	
Ayyl		"The SimQuest Authoring System for Simulation-Based Discovery Learning," Proc. Of 1997 World Conf. On Artificial Intelligence in Education, pp. 79-88, Dec. 1997	
Ayyl		"A Browser-Based System to Support & Deliver DE," 28th Annual Frontiers in Education Conference, Conference Proceedings, Vol. 1, Nov. 4-7, 1998	
Ayyl		"Goal-Based Scenarios and Business Training: A Conversation with Roger C. Schank," Educational Technology, Nov.-Dec. 1994	
Ayyl		"Automate Your Business Plan" at <a href="http://www.business-plan.com/screen2.html">www.business-plan.com/screen2.html</a>	
Ayyl		"Kiplinger TaxCut Press Releases" at <a href="http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html">http://www.taxcut.com/taxcut/98press_releases/pr98_nowshipping.html</a>	
Ayyl		"TurboTax Deluxe Product Information" at <a href="http://www.intuit.com/turbotax/prodinfo/ttdlx.html">http://www.intuit.com/turbotax/prodinfo/ttdlx.html</a>	
Ayyl		"Why Should the Teens Have All the Best Games? Management Skill with Oil, Health, Housing Games," Computergram Int'l, June 176, 1996	
Ayyl		"Template Software Business Simulator, Chapter 8, August 1997	
Ayyl		"Template Software Workflow Simulator, Chapter 8, June 1998	
Ayyl		"Goal-Based Scenarios", Technical Report # 36, Northwestern University, The Institute for the Learning Sciences, December 1992, pp. 1-30	

Examiner Signature	Ayyl Sharoon	Date Considered	5/13/05
--------------------	--------------	-----------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+



Substitute for form 1449 A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number : 09/868,678

Filing Date : 02/08/1999

First Named Inventor: O'Connor

Group Art Unit: n/a

Examiner Name: n/a

Attorney Docket Number: 05222.00155

(Use as many sheets as necessary)

Sheet \_\_\_\_\_ of \_\_\_\_\_

RECEIVED

FEB 15 2002

Technology Center 2100

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
Apel		"Eight Goal-Based Scenario Tools", Technical Report # 67, Northwestern University, The Institute for the Learning Sciences, January 1996, pp. 1-37	
Apel		"A Role for AI in Education: Using Technology to Reshape Education", Northwestern University, The Institute for the Learning Sciences, Journal of Artificial Intelligence in Education, Winter 1990, January 1990, pp. 1-24 and 2 pgs. of references	
Apel		"The Design of Goal-Based Scenarios", Technical Report # 39, Northwestern University, The Institute for the Learning Sciences, March 1993, pp. 1-58	

Examiner Signature	Apel Sharon	Date Considered	5/13/05
-----------------------	-------------	--------------------	---------

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.